

Module description

Module title					Abbreviation
Modern Physics 311-P-MP3-092-m01					
Module coordinator				Module offered by	
Managing Director of the Institute of Ap			pplied Physics Faculty of Physics and Astronomy		
ECTS Method of grading		Only after succ. compl. of module(s)			
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate	Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew.		
Contents					
Nuclear Physics: experimental methods, detectors, structure of the atomic nucleus, radioactivity, nuclear fission, technical and medical applications, radiation protection. Elementary Particle Physics: Particle accelerator, classification of elementary particles, fundamental interactions. Astrophysics: Stellar development, structure of the Sun, cosmology.					
The students have structured knowledge of the efferementioned terms, they know relevant key concents and ex-					
periments as well as measuring methods and dimensions of central values; they are able to work on simple rele- vant problems in a quantitative manner.					
Courses (type, number of weekly contact hours, language — if other than German)					
V + Ü (no information on SWS (weekly contact hours) and course language available)					
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
a) written examination (approx. 90 minutes; usually chosen) or b) oral examination of one candidate each or oral examination in groups (approx. 20 minutes per candidate)					
Allocation of places					
Additional information					
Workload					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
9 77 (1) 1. D) Physik "Fortgeschrittene Experimentalphysik"					
First state examination for the teaching degree Cumpasium Dhusics (2000)					
rist state examination for the teaching degree Gymnasium Physics (2009)					

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